Matrix Script

by DOSHI

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Neo has a complex *matrix script*. The *matrix script* is a N X M grid of strings. It consists of alphanumeric characters, spaces and symbols (!,@,#,$,%,&).

Matrix Script

Matrix Decoded

```
This$#is% Matrix#  %!
```

To decode the script, Neo needs to read each column and select only the alphanumeric characters and connect them. Neo reads the column from top to bottom and starts reading from the leftmost column.

If there are symbols or spaces between two alphanumeric characters of the decoded script, then Neo replaces them with a *single* space ' ' for better readability.

Neo feels that there is no need to use '`if`' conditions for decoding.

Alphanumeric characters consist of: [A-Z, a-z, and 0-9].

Input Format

The first line contains space-separated integers N (rows) and M (columns) respectively.
The next N lines contain the row elements of the *matrix script*.

Constraints

$0 < N, M < 100$

Note: A 0 score will be awarded for using '`if`' conditions in your code.

Output Format

Print the decoded *matrix script*.

Sample Input 0

```
7 3
Tsi
h%x
i #
sM
$a
#t%
ir!
```

Sample Output 0

```
This is Matrix#  %!
```

Explanation 0

The decoded script is:

```
This$#is% Matrix#  %!
```

Neo replaces the symbols or spaces between two alphanumeric characters with a single space ' ' for better readability.

So, the final decoded script is:

```
This is Matrix#  %!
```

Solved score: 99.00pts

Submissions:2711

Max Score:100
Difficulty: Hard

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Current Buffer (saved locally, editable)

Python 3

```python
#!/bin/python3

import sys

if __name__ == "__main__":
    n, m = input().strip().split(' ')
    n, m = [int(n), int(m)]
    matrix = []
    matrix_i = 0
    for matrix_i in range(n):
       matrix_t = str(input().strip())
       matrix.append(matrix_t)

```

Line: 1 Col: 1

Upload Code as File Test against custom input Run Code Submit Code